

# Climate change and health: the big picture

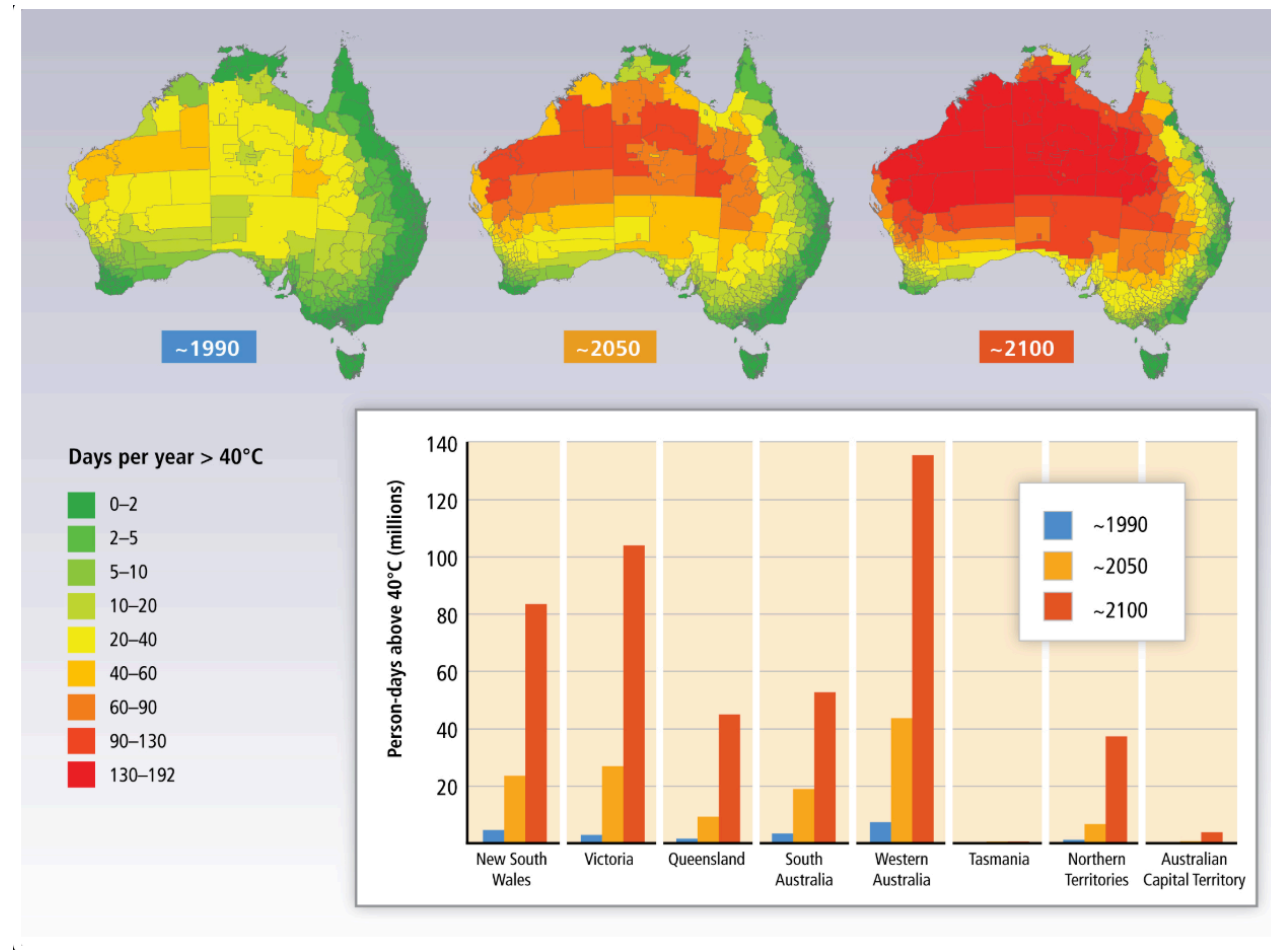
Alistair Woodward

University of Auckland



- Wide range of impacts
- Climate change as a risk amplifier
- Opportunities – the co-benefits agenda

# Projected changes in exposure to heat under a high emissions scenario





# Which city is finding it more difficult to control dengue?



<https://www.startupbootcamp.org/events/fintech-hong-kong-pitch-day-2440/>

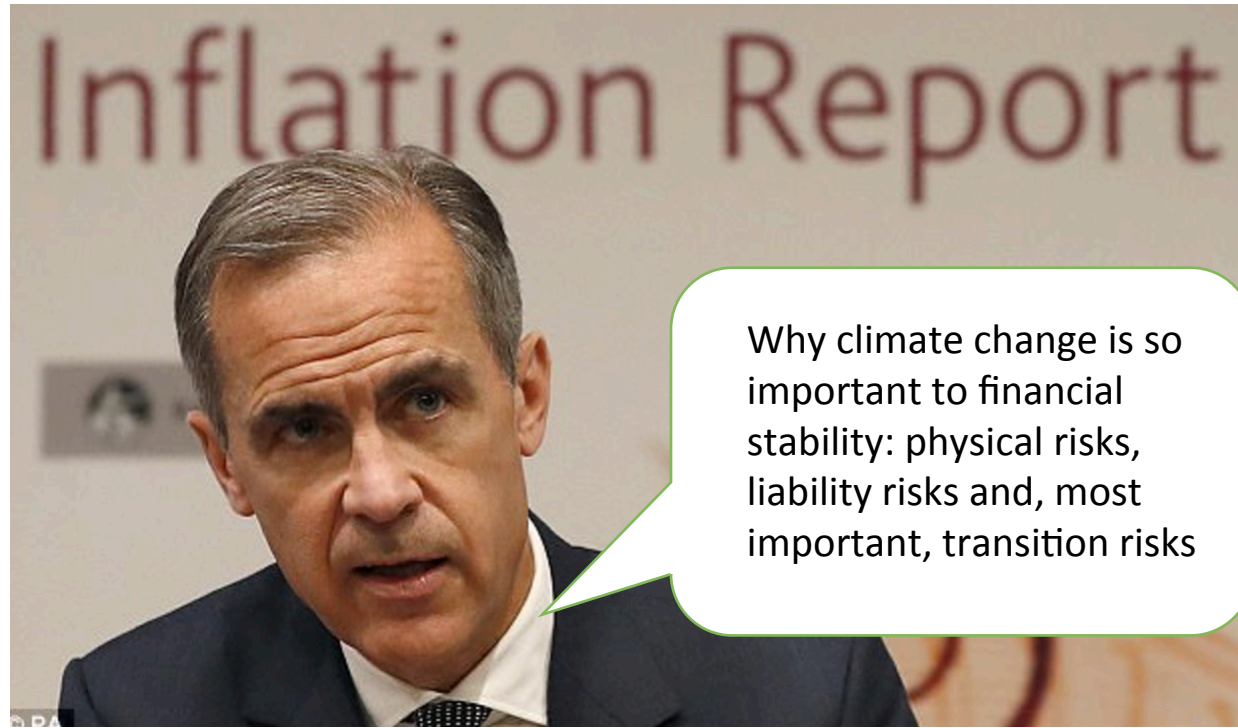


<https://vinepair.com/wp-content/uploads/2016/01/singapore-header.jpg>





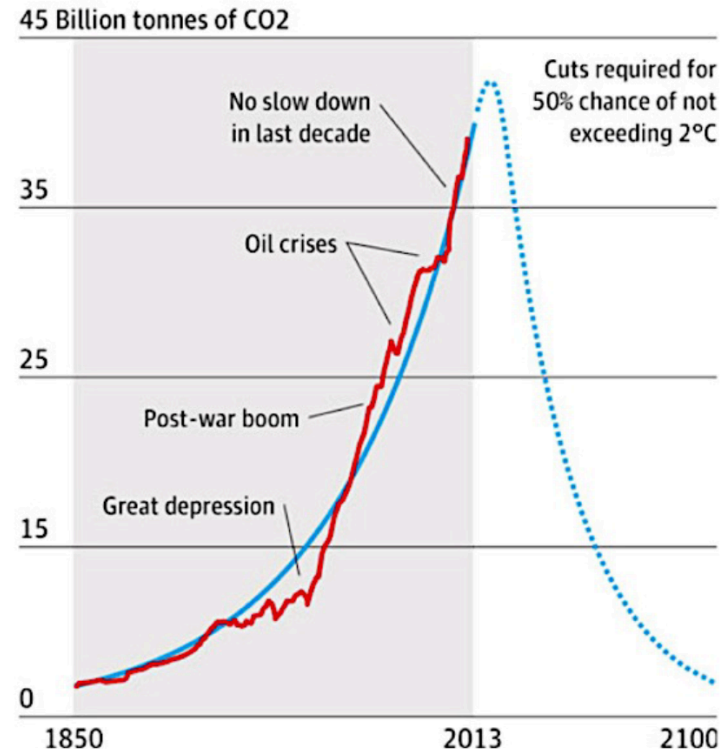
Losses amount to 2/3 national GDP.  
Tropical Cyclone Pam – Vanuatu 2015.



Why climate change is so important to financial stability: physical risks, liability risks and, most important, transition risks

Mark Carney, Governor of the Bank of England

# An effective response to climate change will require radical changes

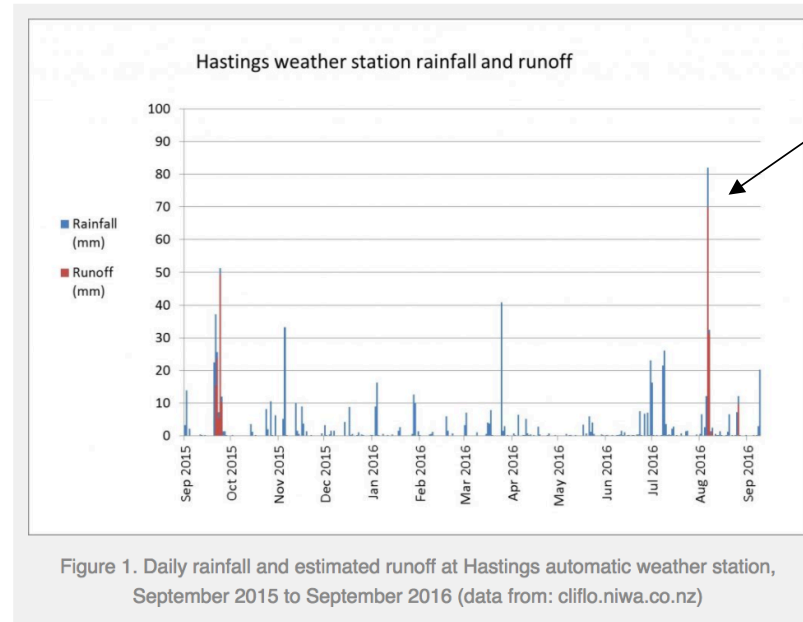


\$200 a ton of Carbon would impose a cost on the UK National Health Service equivalent to about 20% of its total spend on medicines

<http://www.theguardian.com/environment/2013/apr/17/why-cant-we-give-up-fossil-fuels>



# New Zealand's largest outbreak of water-borne disease preceded by heaviest daily rainfall in more than 10 years



Havelock North – more than 5000 people ill due to *Campylobacter* in the town water supply

4 fold increase in extreme precipitation projected in most parts of NZ by 2050

<https://blogs.otago.ac.nz/pubhealthexpert/2016/09/26/note-to-the-havelock-north-inquiry-think-big/>

In this country, what is the fastest-growing cause of admission to hospital for surgery?





“the most effective measures to reduce vulnerability in the near-term are programmes that implement and improve basic public health measures”

5<sup>th</sup> Assessment Report, Working Group 2, Chapter 11 (Health)





Springmann et al 2016

A carbon tax on food to encourage local plant-based diets could reduce global emissions by as much as a GtCO<sub>2</sub>e and avoid up to 500,000 deaths per year.







Electric cars may be an energy solution; they are not a transport solution; and the health gains are slight





# Climate change and health: the big picture

Alistair Woodward

University of Auckland

